Recombinant Protein Technical Manual

Recombinant Rat Tie2/TEK Protein (Fc Tag)(Active)

RPES1128

Product Data:

Product SKU: RPES1128

Size: 100µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: NP_001099207.1

Protein Information:

Molecular Mass:	108 kDa
AP Molecular Mass:	12030 kDa
Tag:	C-Fc
Bio-activity:	1. Measured by its binding ability in a functional ELISA.2. Immobilized S1h-3C-mANGPT2 at 10 µg/mL (100 µL/well) can bind ratTEK-Fc. The EC50 of ratTEK-Fc is 0.26-0.62µg/mL.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per µg of the protein as determined by the LAL method
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile PBS, pH 7.4
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Tie-2;Tie2

Immunogen Information:

Sequence: Met 4-Leu 743

Background:

TEK, or TIE-2, is an endothelial cell-specific receptor tyrosine kinase (RTK) that is known as a functioning molecule of vascular endothelial cells. TEK comprises a subfamily of RTK with TIE, and these two receptors play critical roles in vascular maturation, maintenance of integrity and remodeling. Targeted mutagenesis of both Tek and its agonistic ligand, Angiopoietin, result in embryonic lethality, demonstrating that the signal transduction pathways mediated by this receptor are crucial for normal embryonic development. TEK signaling is indispensable for the development of the embryonic vasculature and suggests that TEK signaling may also be required for the development of the tumor vasculature.